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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/14146

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : F02D 41/00 US CL : 123/545, 546, 547, 543, 672			
US CL : 123/545, 546, 547, 543, 672 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 123/545, 546, 547, 543, 672			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
NONE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
EAST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.
X	US 5,140,966 A (WONG) 25 August 1992 (25.08.1		1-3 and 6
Y			4, 5, and 7
		(10 01 1002) For the series document	4, 5 and 7
Y	US 4,368,712 A (JACKSON et al.) 18 January 1983 (18.01.1983), See the entire document.		4, <i>5</i> and /
A, P	US 6,681,749 B2 (BUSHNELL et al.) 27 January 2004 (27.01.2004), See the entire		1-8
	document.		1-8
A	US 5,782,225 A (CAGGIANO) 21 July 1998 (21.07.1998), See the entire document.		1 -0
A	US 4,881,507 A (SAN FILIPO) 21 November 1989 (21.11.1989), See the entire document.		1-8
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Further	documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "T" late		"T" later document published after the inte date and not in conflict with the applie	ernational filing date or priority
"A" document	defining the general state of the art which is not considered to be	principle or theory underlying the inve	ention
	lar relevance		
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be considered	ered to involve an inventive step
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"L" document establish	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	claimed invention cannot be
specified)		considered to involve an inventive ste	p when the document is
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			······································
Date of the actual completion of the international search Date of mailing of the international search report			
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